

Work Order ID 122440

July-17-14 8:33:36 AM

122440



PRELIMINARY ISSUE

DAS Rev A
Page 1

Item ID: D5122-1 Accept *N9000040100* Setup Start *NS1*
 Revision ID: PRELIM Stop *NS2*
 Item Name: Center Support, Upper
 Start Date: 7/17/14 Start Qty: 2.00 *2* Cust Item ID:
 Required Date: 7/17/14 Req'd Qty: 2.00 *2* Customer:
 Reference:

Approvals: Process Plan: MLJ Date: 14-07-17 Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D5122	PA5 <u>14/07/17</u> Rev A	0.00							DAS 08 9-89
100	HAAS CNC VERTICAL MACHINING #1	0.00				4	0		
100	HAAS 1								
HAAS CNC vertical machine #1	Memo Machine as per Folio FB324 Folio Rev: <u>AP</u> Dwg Rev: <u>PA5</u>								
	Deburr								
110	QC2- Inspect parts off machine FAI/FAIB	0.00							DAS 08 9-89
110	QC								
Quality Control	Memo								

D. 14/07/23

D. 14/07/23

Work Order ID 122440

July-17-14 8:33:36 AM

122440

PRELIMINARY ISSUE

Page 2

Item ID: D5122-1 Accept *N900040100* Setup Start *NS1*
 Revision ID: PRELIM Stop *NS2*
 Item Name: Center Support, Upper
 Start Date: 7/17/14 Start Qty: 2.00 *2* Cust Item ID:
 Required Date: 7/17/14 Req'd Qty: 2.00 *2* Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 *120* QC Quality Control	QC8- Inspect parts - second check Memo	0.00 0.00		2		14	17/24		
121 *121* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo RDS319	0.00 0.00		U/A					
130 *130* Packaging Packaging	Identify as per dwg & Stock Location: _____ Memo	0.00 0.00							



POSITIVE RECALL

EFFECTIVE MLJ AUTH 14-07-17
 RELEASED 9 DATE 14-07-09
 9-89
 Release per A

Work Order ID 122440

122440

PRELIMINARY ISSUE

Page 3

July-17-14 8:33:36 AM

Item ID: D5122-1

Accept

N900040100

Setup Start

NS1

Revision ID: PRELIM

Item Name: Center Support, Upper

Stop

NS2

Start Date: 7/17/14

Start Qty: 2.00

2

Cust Item ID:

Required Date: 7/17/14

Req'd Qty: 2.00

2

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

Quality Control

MCS

JUL 10 2015

4-7-25

Picklist Print

July-17-14 8:33:39 AM

PRELIMINARY ISSUE

Page 1

Work Order ID: 122440

122440

Parent Item: D5122-1

D5122-1

Parent Item Name: Center Support, Upper

Start Date: 7/17/14

Required Date: 7/17/14

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV.A NEW ISSUE JFS 14/07/16 VERIFIED BY: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D5122-1TRN		Manufactured	No			100	Each	0.0000	1	2			

D5122-1TRN

Center Support, Upper, Turning Detail

112439 x2

14-7-25

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

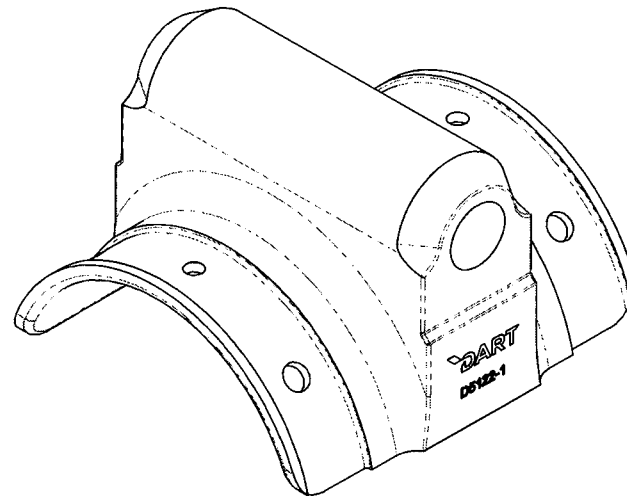
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Crosstube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐
--	--	---

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
--	--	---	--



D5122-1 CENTER SUPPORT, UPPER

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 122440 MLJ
14-07-17

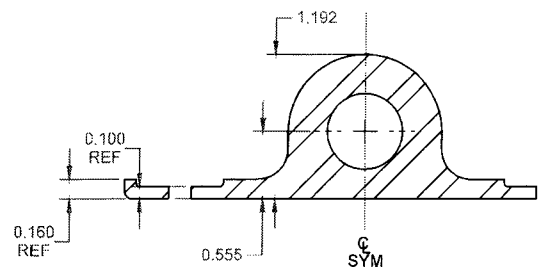
NOTES:

- 1) MATERIAL: MAKE FROM D5122-1TRN
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART LOGO AND P/N "D5122-1" IN AREA SHOWN
USING 0.125 HIGH X 0.010-0.020 DEEP LETTERING PER DART QSI 044 6.3,
IDENTIFY WITH DART B/N PER DART QSI 044 6.1
- 7) WEIGHT: 2.13 lbs
- 8) ALL NON-DIMENSIONED FEATURES DEFINED PER DRAWING FILE "D5122-1-REVA.STL"

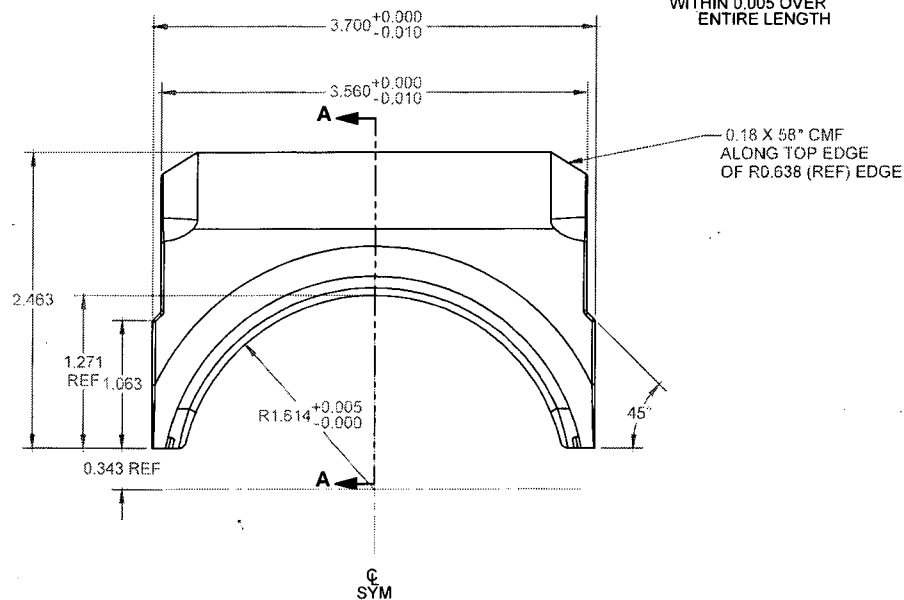
PRELIMINARY ISSUE

A	NEW ISSUE	AP	14.06.02
REV.	DESCRIPTION	BY	DATE
DESIGN	AP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AP		
CHECKED	CP	DRAWING NO.	REV. A5
MFG. APPR.	JFS	D5122	SHEET 1 OF 3
APPROVED		TITLE	SCALE
DE APPR.		CENTER SUPPORT, UPPER	NTS
DATE	14.06.02	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

PRELIMINARY ISSUE



SECTION A-A



D5122-1 CENTER SUPPORT, UPPER

HOLES PERPENDICULAR
WITHIN 0.005 OVER
ENTIRE LENGTH

R0.063
AROUND INSIDE EDGE

HOLES PERPENDICULAR
WITHIN 0.005 OVER
ENTIRE LENGTH

0.18 X 58° CMF
ALONG TOP EDGE
OF R0.638 (REF) EDGE

0.464 REF

3.072 REF

4.000
REF

2.000
 $\phi 0.625^{+0.005}_{-0.000}$
THRU

R0.638
R0.25
2 PL

1.363
REF

1.275
REF

OPTIONAL $\phi 0.261$ REF
TOOLING HOLE,
LOCATED AT 45° TO VERTICAL
4 PL

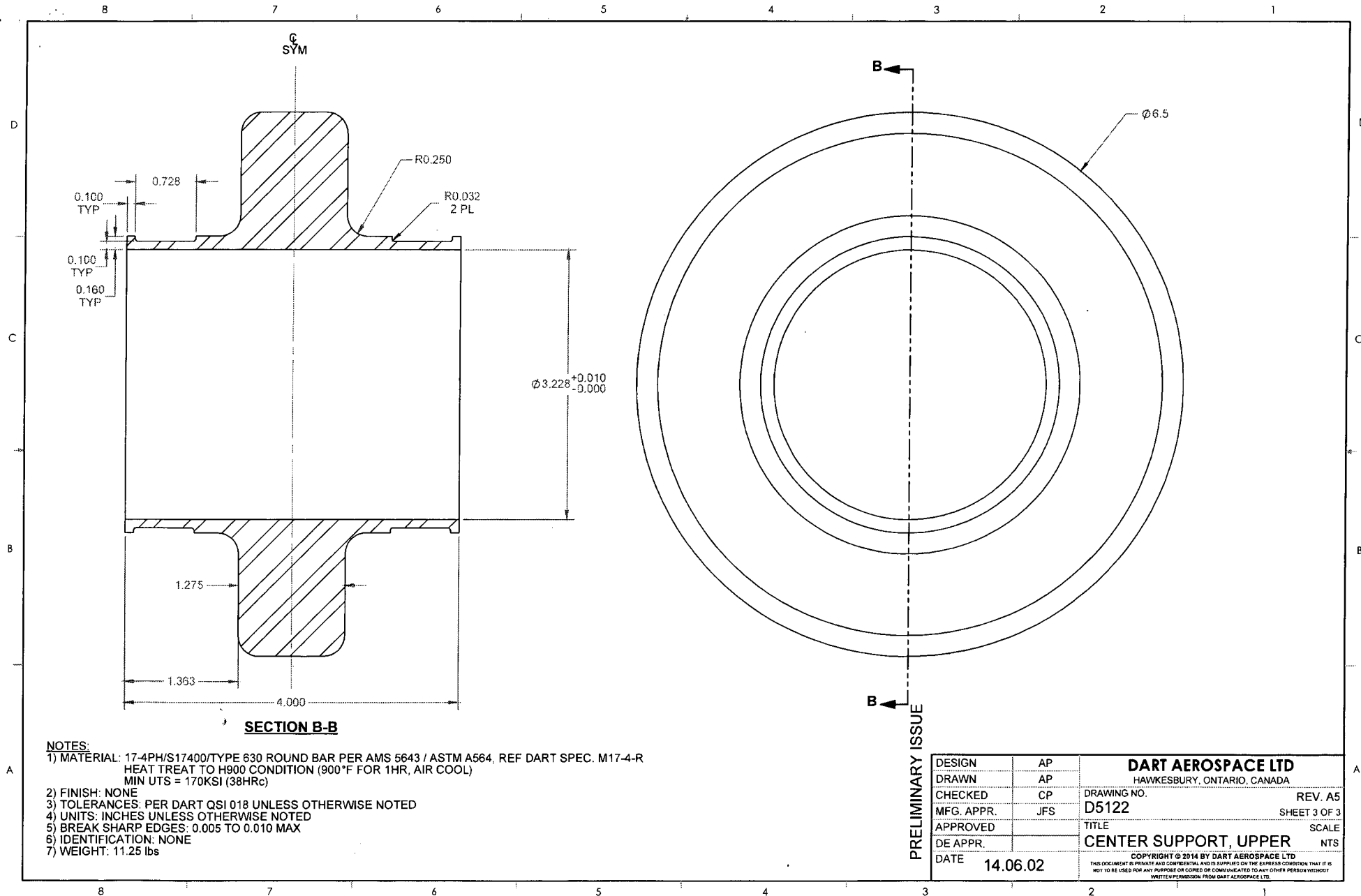
OPTIONAL $\phi 0.189$ REF
TOOLING HOLE,
2 PL

R0.325
TYP

PRELIMINARY ISSUE

DESIGN	AP	DART AEROSPACE LTD	
DRAWN	AP	HAWKESBURY, ONTARIO, CANADA	
CHECKED	CP	DRAWING NO.	REV. A5
MFG. APPR.	JFS	D5122	SHEET 2 OF 3
APPROVED		TITLE	SCALE
DE APPR.		CENTER SUPPORT, UPPER	NTS
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PRELIMINARY ISSUE



PRELIMINARY ISSUE

DART AEROSPACE LTD		Work Order:	122440
Description: Center Support, Upper		Part Number:	D5122-1
Inspection Dwg: D5122	Rev: PA5	Page 1 of 1	

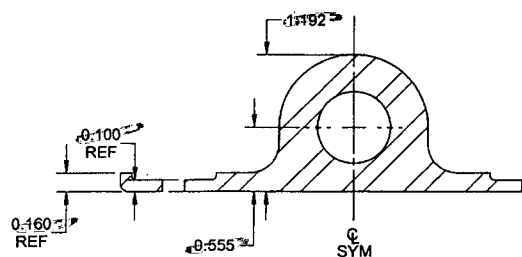
FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
1.192	+/- .010	1.190	✓		H-6	31006
0.555	+/- .010	0.551	✓		"	"
R0.063	+/- .010	R0.063	✓		R-6	ref.
3.700	+0.000/-0.010	3.6980	✓		Mic	6A-10
3.560	+0.000/-0.010	3.5590	✓		"	"
2.463	+/- .010	2.462	✓		H-6	31006
1.063	+/- .010	1.062	✓		Vern	6A-13
R1.614	+0.005/-0.000	R1.617	✓		R-6	ref.
0.18 x 58°	+/- .030 / +/- 1/2°	0.180 x 58°	✓		Vern / gage	6A-13 / CX-17
φ 0.625	+0.005/-0.000	φ 0.625	✓		Vern	6A-13
2.000	+/- .010	1.9985	✓		H-6	31006
R0.638	+/- .010	R0.638	✓		R-6	ref.
R0.25	+/- .030	R0.250	✓		"	"
R0.325	+/- .010	R0.325	✓		"	"
Hole perpendicular	within .005	0.0015	✓		H-6	31006
Hole perpendicular	within .005	.0035	✓		"	"

Measured by: DAS	Audited by: DAS	Preliminary Approval:
Date: 14/07/23	Date: 14/7/24	Date:

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	-

10.04.15



SECTION A-A

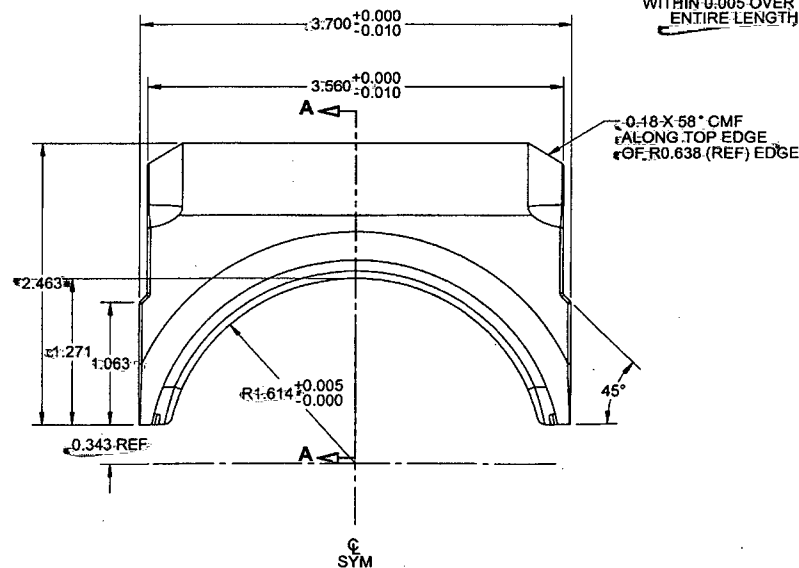
HOLES PERPENDICULAR
WITHIN 0.005 OVER
ENTIRE LENGTH

R0.063
AROUND INSIDE EDGE

0.464 REF

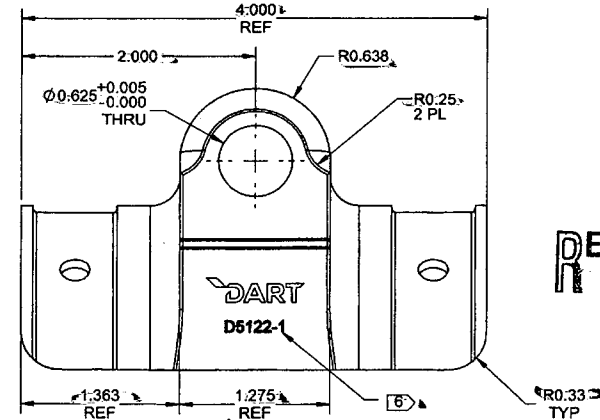
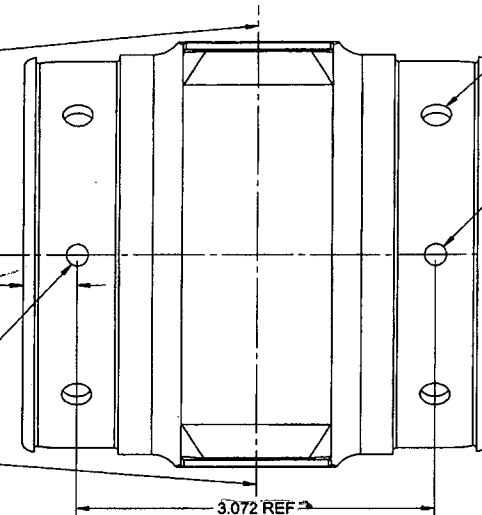
OPTIONAL: Ø0.261 REF.
TOOLING HOLE,
LOCATED AT 45° TO VERTICAL
4 PL

OPTIONAL: Ø0.189 REF
TOOLING HOLE,
2 PL



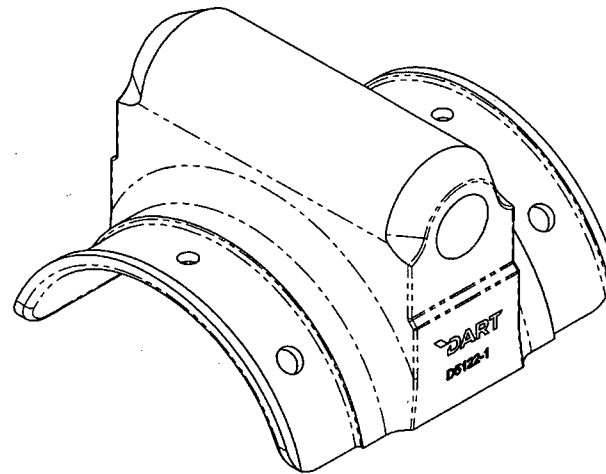
D5122-1 CENTER SUPPORT

HOLES PERPENDICULAR
WITHIN 0.005 OVER
ENTIRE LENGTH



RELEASED
2014-08-25

APPROVED	DESIGN	AP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
	DRAWN	AP		
	CHECKED	CP	DRAWING NO.	REV. A
	MFG. APPR.	JLM	D5122	SHEET 2 OF 3
	APPROVED	MP	TITLE	SCALE
	DE APPR.	DS	CENTER SUPPORT	NTS
	DATE	14.06.02	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



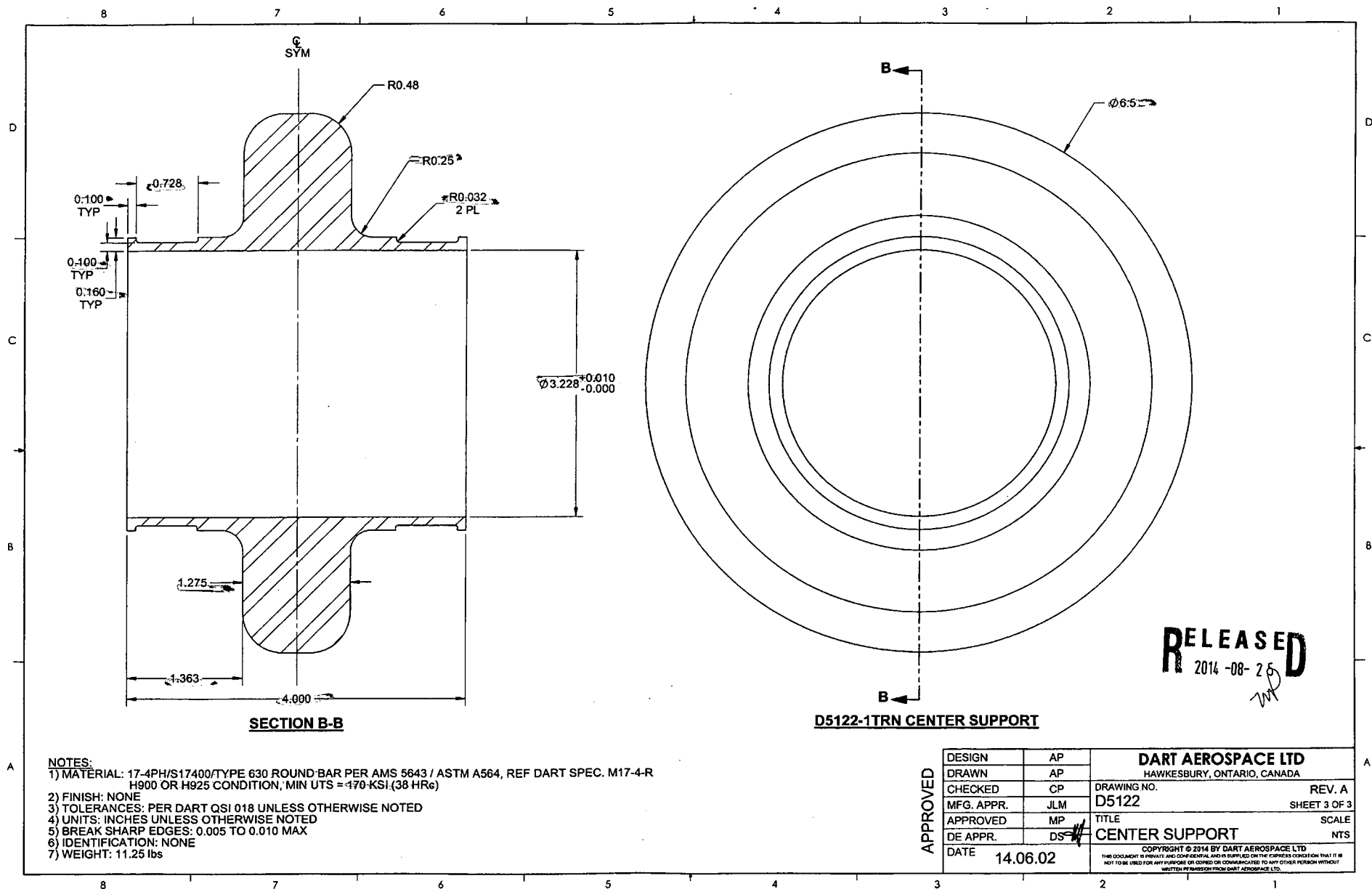
D5122-1 CENTER SUPPORT

NOTES:

- 1) MATERIAL: MAKE FROM D5122-1TRN
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART LOGO AND P/N "D5122-1" IN AREA SHOWN
USING 0.125 HIGH X 0.010-0.020 DEEP LETTERING PER DART QSI 044 6.3,
IDENTIFY WITH DART B/N PER DART QSI 044 6.1
- 7) WEIGHT: 2.13 lbs
- 8) ALL NON-DIMENSIONED FEATURES DEFINED PER DRAWING FILE "D5122-1-REVA.SLDPRT"

RELEASED
2014-08-25

APPROVED	A NEW ISSUE		AP	14.06.02
	REV.	DESCRIPTION		BY DATE
	DESIGN	AP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
	DRAWN	AP		
	CHECKED	CP	DRAWING NO.	REV. A
	MFG. APPR.	JLM	D5122	SHEET 1 OF 3
		APPROVED	MP	TITLE SCALE
		DE APPR.	DS	CENTER SUPPORT NTS
		DATE	14.06.02	COPYRIGHT © 2014 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



Picklist Print

July-17-14 8:33:29 AM

PRELIMINARY ISSUE

Page 1

Work Order ID: 122439

122439

Parent Item: D5122-1TRN

D5122-1TRN

Parent Item Name: Center Support, Upper, Turning Detail

Start Date: 7/17/14

Required Date: 7/17/14

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV. A NEW ISSUE JFS 14/07/09 VERIFIED BY: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6104-011		Manufactured	No			100	Each	14.0000	1	1			
D6104-011									**	1		14-7-19	
17-4 SS Roundbar 6.50"OD													

LocationLoc QtyLoc Code

MAT043

14

106719

1

110138

3

120229

10

2.0



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO24563**

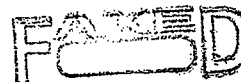
Purchase Order Date 6/11/2014

PO Print Date 6/11/2014

Page Number 1 of 2

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA



Contact Name		Buyer	Chantal Lavoie
Vendor Phone	514 694 9575	Customer POID	
		Customer Tax #	10127-2607
Ship To Contact		Terms	Net 10
Ship To Phone		Currency	CAD
Ship Via:	VENDOR'S TRUCK	FOB	FCA - (Free Carrier)
Ship Acct:			

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D6104-003P	17-4 SS Roundbar 3.25"Od	6/27/2014 Yes 6/27/2014		8.00 Each	\$32.45	\$259.60

AS PER DWG D6104 REV. B
B120528
SIZE: 3.25" X 3.80" LONG
MATERIAL: 17-4 PH AS PER AMS 5643 OR AISI 630

Line Total: \$259.60

2	D6104-011P	17-4 SS Roundbar 6.50"Od	6/27/2014 Yes 6/27/2014		10.00 Each	\$158.00	\$1,580.00
---	------------	--------------------------	-------------------------------	--	---------------	----------	------------

AS PER DWG D6104 REV. B
B120229
MATERIAL: 17-4 PH SIZE: 6.50" X 4.100" LONG

Line Total: \$1,580.00

Note:

6/11/2014

**Castle Metals®**

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:2209174

Ship From: MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped	F.O.B.	Freight Terms		Carrier		BOL No	
18-JUN-2014	ORIGIN	Prepaid		MANITOULIN		2209174-2	

Shipment Details	Final Destination Branch - MON
-------------------------	---------------------------------------

Order No 3402876	Line No 2	Item No 15003.MO	Description 6.5000.RD.17CR-4NI.STAINLESS.RT.SOL TR.COND A.120.0000-168.0000 CUT TO 4.1 IN (+ .1250/- .0000 IN) - BAND SAW CUTTING SPECIFICATIONS: AMS 5643 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com						
Purchase Order No 24563		Part Number YOUR ITEM NUMBER: D6104-011		Ordered Qty 10.00 PCS			Invoice Qty 10.00 PCS		
Details		ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S FORWARD COPY OF P/S TO TRACY (MONTREAL) Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS							
Delivery No.	Mill	Heat Number		Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)	



Castle Metals®

A. M. Castle & Co.

**PACKING SLIP/
CERTIFICATE OF CONFORMANCE**

Page 2 of 2

119679155				10			400.4532
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These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.	
We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	Date: Name:

**VALBRUNA**SLATER STAINLESS, INC.
2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46802 USA
PHONE 260.434.2800 - FAX 260.434.2801**Product Certification Report**Report Number: **4952960**

Certified on Jan 03, 2014 Page 1 of 2

Order I.D. 1302461-001	Order Date 10/22/13	Commodity Code 15003
Dim 1 6.5000	Dim 2 .0000	Dim 3 .0000
Heat I.D. 425963	Customer I.D. 001117	Customer Purchase Order 249133
Product Shape Rounds	Product Surface HR & Rough Turned	Customer Grade 17CR-4NI
Length (Inches) 120.000 Min. 168.000 Max.	BB of Leading # 420864	Weight

Ship
ToCASTLE METALS
26800 MILES ROAD
BEDFORD HEIGHTS, OH 44146Sold
ToVALBRUNA STAINLESS, INC.
2400 TAYLOR STREET WEST
FORT WAYNE, IN 46802
14106122

Lifts: 0044

AISI 630

UNS S17400

AMS 2303F

Condition A

ASTM A564-13

AMS 5643S (except finish)

3174-02 REV 36

ASMESA 564 10 ED 2011a add.

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	N	Cb	Ta	Cb+Ta
.035	.70	.028	.022	.45	15.97	4.40	.26	3.32	.03	.26	.000	.259

BRINELL HARDNESS ASTM E10-12

HBW

357

TENSILE PROPERTIES ASTM E8-13a**CAPABILITY**

Cap HB	TS (PSI)	.2%YS (PSI)	%EL(4d)	%RA	AGE(F)
436	199700	175200	17.6	45.4	900

MAGNETIC PARTICLE TEST AMS2303

FREQ SEV

AVG .00 .00

MACRO ASTM E340-00/E381-01

MACRO

OK

OK

OK

PERCENT FERRITE (AMS 2315)

% FERRITE Etchant Magnification X

AVG 2.0 Marbles 100

Reduction ratio 5 To 1 Min.

Electric Furnace melted; AOD refined.

Ultrasonic tested to ASTM A388- Satisfactory.

Chemical testing to one or more of the listed ASTM methods:

E415-08, E572-02a, E1019-11, E1085-95, E1086-08.

Location of tensile fracture: inside middle of gage length.

Chemical Analysis performed at Acciaierie Valbruna, Italy.

No mercury or low melting alloy contamination. No weld repair.

Material melted in Italy, manufactured in the United States.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info.

I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

Dennis Hackett

email: DHackett@valbruna.us

Dennis Hackett



VALBRUNA

SLATER STAINLESS, INC.
2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46802 USA
PHONE 260.434.2800 - FAX 260.434.7801

Product Certification Report

Report Number: **4952960**

Certified on Jan 03, 2014 Page 2 of 2

Order I.D. 1302461 001		Order Date 10/22/13		Commodity Code 15003	
Dim 1 6.5000	Dim 2 .0000	Dim 3 .0000	Heat I.D. 425963	Customer I.D. 001117	Customer Purchase Order 249133
Product Shape Rounds			Product Surface HR & Rough Turned		Customer Grade 17CR-4NI
Length (Inches) 120.000 Min. 168.000 Max.			Bill of Lading # 420864	Weight	

Ship
To

CASTLE METALS
26800 MILES ROAD
BEDFORD HEIGHTS, OH 44146

Sold
To

VALBRUNA STAINLESS, INC.
2400 TAYLOR STREET WEST
FORT WAYNE, IN 46802

Material conforms to listed specifications and is DFARS compliant.

Quality system is compliant with ISO 9001:2008. Produced in accordance with EN 10204 3.1.

am 14/06/22

Castle Metals FP

HEAT NUMBER 425963

MECHANICAL ID _____

ITEM CODE 15003

LOT NUMBER _____

PO NUMBER 249133

RECEIPT DATE 2-11-14

SUPPLIER Valbruna

SPECIFICATION _____

LCS N

COMMENT h

APPROVED _____

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

Dennis Hackett

email: DHackett@valbruna.us

Dennis Hackett